

## SEQUENCE LISTING

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<120> PEPTIDE-MEDIATED DELIVERY OF MOLECULES INTO CELLS

<130> AM-00105.P.1.1

<150> US 60/221,932

<151> 2000-07-31

<160> 43

<170> PatentIn version 3.0

<210> 1

<211> 21

<212> PRT

<213> synthetic construct

<400> 1

Tyr	Gly	Phe	Lys	Lys	Arg	Arg	Trp	Ser	Gln	Pro	Lys	Glu	Thr	Trp	Glu
1				5					10					15	

Thr	Trp	Trp	Thr	Glu
			20	

<210> 2

<211> 18

<212> PRT

<213> synthetic construct

<400> 2

Tyr	Gly	Phe	Lys	Lys	Arg	Arg	Gln	Pro	Thr	Trp	Trp	Glu	Thr	Trp	Trp
1				5					10					15	

Thr	Glu
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<210> 3

<211> 17  
 <212> PRT  
 <213> synthetic construct

<400> 3

Tyr Gly Phe Lys Lys Arg Arg Gln Thr Trp Trp Glu Thr Trp Trp Thr  
 1 5 10 15

Glu

<210> 4  
 <211> 19  
 <212> PRT  
 <213> synthetic construct

<400> 4

Tyr Gly Phe Lys Lys Phe Arg Lys Pro Trp Thr Trp Trp Glu Thr Trp  
 1 5 10 15

Trp Thr Glu

<210> 5  
 <211> 19  
 <212> PRT  
 <213> synthetic construct

<400> 5

Tyr Gly Phe Lys Lys Phe Arg Lys Pro Trp Thr Trp Trp Glu Thr Trp  
 1 5 10 15

Trp Thr Glu

<210> 6  
 <211> 19  
 <212> PRT  
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<400> 6

Lys Lys Lys Arg Lys Val Lys Pro Glu Thr Trp Trp Glu Thr Trp Trp  
 1 5 10 15

Glu Thr Val

<210> 7  
 <211> 21  
 <212> PRT  
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<400> 7

Lys Glu Thr Trp Trp Glu Thr Trp Trp Thr Glu Trp Ser Gln Pro Lys  
 1 5 10 15

Lys Lys Arg Lys Val  
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<210> 8  
 <211> 20  
 <212> PRT  
 <213> synthetic construct

<400> 8

Lys Glu Thr Trp Trp Glu Thr Trp Trp Thr Glu Trp Ser Gln Pro Lys  
 1 5 10 15

Lys Arg Lys Val  
 20

<210> 9  
 <211> 20  
 <212> PRT  
 <213> synthetic construct

<400> 9

Lys Glu Thr Trp Trp Glu Thr Trp Trp Thr Glu Ala Ser Gln Pro Lys  
 1 5 10 15

Lys Arg Lys Val  
 20

<210> 10  
 <211> 21  
 <212> PRT  
 <213> synthetic construct

<400> 10

Lys Glu Thr Trp Trp Glu Thr Trp Trp Glu Thr Trp Ser Gln Pro Lys  
 1 5 10 15

Lys Lys Arg Lys Val  
 20

<210> 11  
 <211> 19  
 <212> PRT  
 <213> synthetic construct

<400> 11

Lys Glu Thr Trp Trp Glu Thr Trp Thr Trp Ser Gln Pro Lys Lys Lys  
 1 5 10 15

Arg Lys Val

<210> 12  
 <211> 19  
 <212> PRT  
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<400> 12

Lys Trp Trp Glu Thr Trp Trp Glu Thr Trp Ser Gln Pro Lys Lys Lys  
 1 5 10 15

Arg Lys Val

<210> 13  
 <211> 23  
 <212> PRT  
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<220>

<221> X

<222> (1)..(23)

<223> X at residues 1, 2, 3, 8, 9, 12, 13 and 23 can be any amino  
 acid  
 or no amino acid

<400> 13

Xaa Xaa Xaa Lys Lys Arg Arg Xaa Xaa Xaa Xaa Xaa Xaa Thr Trp Xaa  
 1 5 10 15

Glu Thr Trp Trp Xaa Xaa Xaa  
 20

<210> 14

<211> 22

<212> PRT

<213> synthetic construct

<220>

<221> X

<222> (8)..(16)

<223> X at residues 8, 9, 11, 12, 13, 16 can be any amino acid or  
 no am  
 ino aci

<400> 14

Tyr Gly Phe Lys Lys Arg Arg Xaa Xaa Gln Xaa Xaa Xaa Thr Trp Xaa  
 1 5 10 15

Glu Thr Trp Trp Thr Glu  
 20

<210> 15

<211> 21

<212> PRT

<213> synthetic construct

<220>

<221> X

<222> (2)..(21)

<223> X at residue 2, 3, 10, 11, 12, 18 and 21 can be any amino  
 acid o  
 r no amino aci

<400> 15

Lys Xaa Xaa Trp Trp Glu Thr Trp Trp Xaa Xaa Xaa Ser Gln Pro Lys  
 1 5 10 15

Lys Xaa Arg Lys Xaa  
 20

<210> 16  
 <211> 21  
 <212> PRT  
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<220>  
 <221> X  
 <222> (10)..(11)  
 <223> X at residue 10 and 11 can be any amino acid or no amino acid

<400> 16

Lys Glu Thr Trp Trp Glu Thr Trp Trp Xaa Xaa Trp Ser Gln Pro Lys  
 1 5 10 15

Lys Lys Arg Lys Val  
 20

<210> 17  
 <211> 20  
 <212> PRT  
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<220>  
 <221> X  
 <222> (6)..(20)  
 <223> X at residue 6 and 20 can be any amino acid or no amino acid

<400> 17

Tyr Gly Phe Lys Lys Xaa Arg Arg Pro Trp Thr Trp Trp Glu Thr Trp  
 1 5 10 15

Trp Thr Glu Xaa  
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<210> 18  
 <211> 5  
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<220>  
 <221> X  
 <222> (3)..(4)

<223> X at residue 3 and 4 can be any amino acid or no amino acid

<400> 18

Trp Trp Xaa Xaa Trp  
1 5

<210> 19

<211> 27

<212> PRT

<213> synthetic construct

<400> 19

Gly Ala Leu Phe Leu Gly Phe Leu Gly Ala Ala Gly Ser Thr Met Gly  
1 5 10 15

Ala Trp Ser Gln Pro Lys Ser Lys Arg Lys Val  
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<210> 20

<211> 34

<212> DNA

<213> Homo sapiens

<400> 20

cgggatcccg atgtctacgg aactcttctc atcc  
34

<210> 21

<211> 34

<212> DNA

<213> Homo sapiens

<400> 21

ccccatgggg tcatgggctc atgtccttca ccag  
34

<210> 22

<211> 17

<212> PRT

<213> Caiman crocodilus

<400> 22

Met Gly Leu Gly Leu His Leu Leu Val Leu Ala Ala Ala Leu Gln Gly  
 1 5 10 15

Ala

<210> 23  
 <211> 7  
 <212> PRT  
 <213> Simian virus 40

<400> 23

Pro Lys Lys Lys Arg Lys Val  
 1 5

<210> 24  
 <211> 4  
 <212> PRT  
 <213> synthetic construct

<400> 24

Trp Ser Gln Pro  
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<210> 25  
 <211> 27  
 <212> PRT  
 <213> synthetic construct

<400> 25

Met Gly Leu Gly Leu His Leu Leu Val Leu Ala Ala Ala Leu Gln Gly  
 1 5 10 15

Ala Trp Ser Gln Pro Lys Lys Lys Arg Lys Val  
 20 25

<210> 26  
 <211> 23  
 <212> PRT  
 <213> synthetic construct

<400> 26

Met Gly Leu Gly Leu His Leu Leu Val Leu Ala Ala Ala Leu Gln Gly  
 1 5 10 15



Ala Lys Lys Lys Arg Lys Val  
20

<210> 27  
<211> 27  
<212> PRT  
<213> synthetic construct

<400> 27

Gly Ala Leu Phe Leu Gly Trp Leu Gly Ala Ala Gly Ser Thr Met Gly  
1 5 10 15

Ala Trp Ser Gln Pro Lys Lys Lys Arg Lys Val  
20 25

<210> 28  
<211> 24  
<212> PRT  
<213> synthetic construct

<400> 28

Gly Ala Leu Phe Leu Gly Trp Leu Gly Ala Ala Gly Ser Thr Met Gly  
1 5 10 15

Ala Arg Lys Lys Lys Arg Lys Val  
20

<210> 29  
<211> 27  
<212> PRT  
<213> synthetic construct

<400> 29

Gly Ala Leu Phe Leu Gly Phe Leu Gly Ala Ala Gly Ser Thr Met Gly  
1 5 10 15

Ala Trp Ser Gln Pro Lys Ser Lys Arg Lys Val  
20 25

<210> 30  
<211> 19  
<212> DNA  
<213> Human immunodeficiency virus

<220>  
 <221> Antisense  
 <222> (1)..(19)  
 <223> Antisense to HIV TAT

<400> 30  
 ggtcttactc tccgtctct  
 19

<210> 31  
 <211> 26  
 <212> DNA  
 <213> synthetic construct

<400> 31  
 accagccttc cgatccacca gtcatt  
 26

<210> 32  
 <211> 12  
 <212> PRT  
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<400> 32

Lys Glu Thr Trp Trp Glu Thr Trp Trp Thr Glu Trp  
 1 5 10

<210> 33  
 <211> 6  
 <212> PRT  
 <213> Simian virus 40

<400> 33

Lys Lys Lys Arg Lys Val  
 1 5

<210> 34  
 <211> 10  
 <212> PRT  
 <213> synthetic construct

<400> 34

Tyr Gly Phe Lys Lys Arg Arg Gln Pro Thr  
 1 5 10

<210> 35  
 <211> 9  
 <212> PRT  
 <213> synthetic construct

<400> 35

Thr Trp Trp Glu Thr Trp Trp Thr Glu  
 1 5

<210> 36  
 <211> 21  
 <212> PRT  
 <213> synthetic construct

<400> 36

Lys Glu Thr Trp Trp Glu Thr Trp Trp Thr Glu Trp Ser Gln Pro Lys  
 1 5 10 15

Lys Lys Arg Lys Val  
 20

<210> 37  
 <211> 20  
 <212> PRT  
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<400> 37

Lys Glu Thr Trp Trp Glu Thr Trp Trp Glu Thr Trp Ser Gln Lys Lys  
 1 5 10 15

Lys Arg Lys Val  
 20

<210> 38  
 <211> 11  
 <212> PRT  
 <213> synthetic construct

<400> 38

Lys Glu Thr Trp Trp Glu Thr Trp Trp Thr Glu  
 1 5 10

<210> 39  
 <211> 10  
 <212> PRT  
 <213> synthetic construct

<400> 39

Trp Ser Gln Pro Lys Lys Lys Arg Lys Val  
 1 5 10

<210> 40  
 <211> 7  
 <212> PRT  
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<400> 40

Pro Lys Lys Lys Arg Lys Val  
 1 5

<210> 41  
 <211> 19  
 <212> PRT  
 <213> synthetic construct

<400> 41

Tyr Gly Phe Lys Lys Phe Arg Lys Pro Trp Thr Trp Trp Glu Thr Trp  
 1 5 10 15

Trp Thr Glu

<210> 42  
 <211> 19  
 <212> PRT  
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<400> 42

Lys Thr Trp Trp Glu Thr Trp Trp Glu Thr Ala Ser Gln Pro Lys Lys  
 1 5 10 15

Arg Lys Val

<210> 43

<211> 19  
<212> PRT  
<213> synthetic construct

<400> 43

Lys Thr Trp Trp Glu Thr Trp Trp Glu Thr Trp Ser Gln Pro Lys Lys  
1 5 10 15

Arg Lys Val